## PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

	(PCT Article 18 and Hules	·	
Applicant's or agent's file refer SCB/51868001	FOR FURTHER SE (FO	ee Notification of Transmittal of Inte form PCT/ISA/220) as well as, when	rnational Search Report re applicable, item 5 below.
nternational application No.	International filing date (day/n	nonth/year) (Earliest) Priority	Date (day/month/year)
PCT/EP 00/05592	14/06/2000	) 1	4/06/1999
Applicant			
JANSSEN PHARMACEUT	ICA N.V.		
	port has been prepared by this International by is being transmitted to the International Bu		itted to the applicant
CTD	port consists of a total of	_ sheets.	
A It is also acc		ent cited in this report.	
1. Basis of the report			·
a. With regard to the la language in which it	nguage, the international search was carried was filed, unless otherwise indicated under t	I out on the basis of the internation this item.	ial application in the
the internation	onal search was carried out on the basis of a ale 23.1(b)).	translation of the international app	lication furnished to this
	ucleotide and/or amino acid sequence dis	sclosed in the international applicat	ion, the international search
	ne basis of the sequence listing: the international application in written form.		
filed together	r with the international application in compute	er readable form.	
X furnished sul	bsequently to this Authority in written form.		
₩.	bsequently to this Authority in computer read	ible form.	
T the statemen	nt that the subsequently furnished written sec application as filed has been furnished.	quence listing does not go beyond	the disclosure in the
C***	nt that the information recorded in computer	readable form is identical to the wri	itten sequence listing has bee
2. X Certain clair	ms were found unsearchable (See Box I).		
3. Unity of inv	ention is lacking (see Box II).		
4. With regard to the title,			
<u>~</u>	proved as submitted by the applicant.		
=	been established by this Authority to read as	s follows:	
CLONING AND EX	PRESSION OF A NOVEL 5-HT4	RECEPTOR	
5. With regard to the abstra	act,		
the text has	proved as submitted by the applicant. been established, according to Rule 38.2(b), nonth from the date of mailing of this internati		
6. The figure of the drawin	gs to be published with the abstract is Figure	e No	
as suggeste	d by the applicant.	X	None of the figures.
because the	applicant failed to suggest a figure.		
because this	figure better characterizes the invention.		

### INTERNATIONAL SEARCH REPUHI

International Application No PCT/EP 00/05592

A. CLASSIFICATION OF SUBJECT MAT IPC 7 C12N15/12 C G01N33/50

C07K14/705

C07K16/1

A61K38/17

According to International Patent Classification (IPC) or to both national classification and IPC

5/10

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N C07K A61K G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, EMBL, BIOSIS

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	BENDER E. ET AL.: "Structure of the human serotonin H-HT4 receptor gene and cloning of a novel 5-HT4 splice variant." J. NEUROCHEM., vol. 74, February 2000 (2000-02), pages 478-489, XP000953119 the whole document	1-20, 23-25, 28,30-34
A	BLONDEL O. ET AL.: "Cloning, expression and pharmacology of four human 5-hydroxytryptamine-4 receptor isoforms produced by alternative splicing in the carboxy terminus."  J. NEUROCHEM., vol. 70, June 1998 (1998-06), pages 2252-2261, XP000953121 the whole document	1-20, 23-25, 28,30-34

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:      "A" document defining the general state of the art which is not considered to be of particular relevance      "E" earlier document but published on or after the international filing date      "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)      "O" document referring to an oral disclosure, use, exhibition or other means      "P" document published prior to the international filing date but later than the priority date claimed	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search	Date of mailing of the international search report
25 October 2000	07/11/2000
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Galli, I

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## INTERNATIONAL SEARCH REPORT

International Application No PCT/EP 00/05592

	TO BE RELEVANT	Relevant to state Miles	
ategory ° Cita	tion of document, with ind	Relevant to claim No.	
	WO 94 14957 A (GERALD CHRISTOPHE	1-20, 23-25, 28,30-34	
	;WEINSHANK RICHARD L (US); HARTIG PAUL (US); BRA) 7 July 1994 (1994-07-07)	28,30-34	
	abstract		
	claims 1-93		
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## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 21,22,26,27 and partly 28

Claims 21,22,26,27 and partly 28 refer to agonists and antagonists of the new 5-HT4 splice variant protein, without however giving a true technical characterization. Moreover, no such compounds are defined in the application, and the agonists and antagonists known to act on other splice forms do not necessarily have the same effect on the present splice form (Bender, J. Neurochem. 74:478-489, 2000). In consequence, said claims are ambigous and vague, and their subject-matter is not sufficiently disclosed and supported in the description pursuant to Art. 5 and 6 PCT. No search can be carried out for such purely speculative claims, the wording of which is, in fact, a mere recitation of the results to be achieved.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

## INTERNATIONAL SEARCH REPORT

International application No. PCT/EP 00/05592

Box I Observations where certain claims were found unsearchable (Continuation of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.:     because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.: 21,22,26,27 and partly 28 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  See FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by daims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

#### VIERNATIONAL SEARCH REPORT

information on patent family members

International Application No PCT/EP 00/05592

cited in search report date	member(s)	date
WO 9414957 A 07-07-1994	US 5472866 A AU 685076 B	05-12-1995 15-01-1998
	AU 5960694 A CA 2129969 A	19-07-1994 07-07-1994
	EP 0642578 A US 5766879 A	15-03-1995 16-06-1998

Form PCT/ISA/210 (patent family annex) (July 1992)